

Description

- 2.0 x 1.2mm SMD crystal in a hermetically sealed ceramic package with an electron beam sealed metal lid. Suitable for real time clock applications.
- Model IQXC-25
- Model Issue number 3

Frequency Parameters

- Frequency 32.7680kHz
- Frequency Tolerance ± 20.00 ppm
- Tolerance Condition @ 25°C $\pm 5^\circ\text{C}$
- Operating Temperature Range -40.00 to 85.00°C
- Overtone Order Fundamental
- Ageing ± 3 ppm max per year @ 25°C
- Frequency Stability Coefficient: $-0.03/^\circ\text{C}^2$ typ
- Motional Capacitance (C1): 7fF typ

Electrical Parameters

- Load Capacitance (CL) 12.50pF
- Shunt Capacitance (C0) 1.3pF typ, 1.7pF max
- Drive Level 0.1 μW $\pm 0.01\mu\text{W}$ recommended, ± 1
- ESR 90.00k Ω max

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes.
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs).

Manufacturing Details

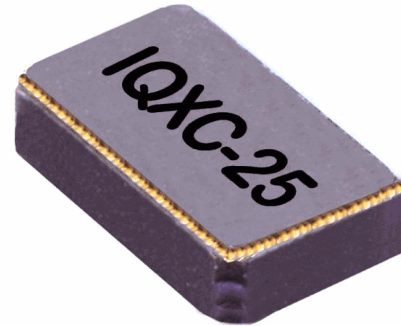
- Maximum Reflow Temperature: 260°C for 5secs max

Compliance

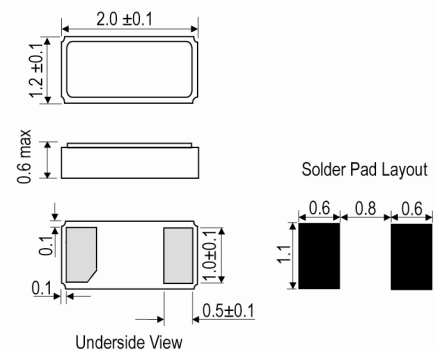
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

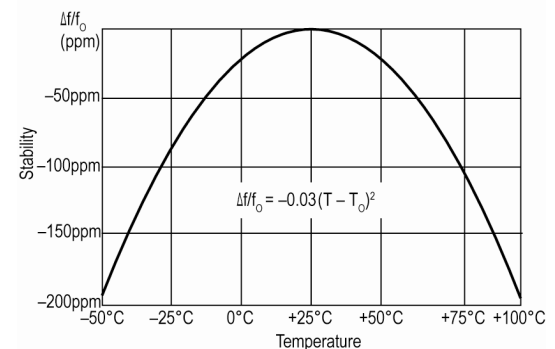
- Pack Style: **Cutt** In tape, cut from a reel
- Pack Size: 100
- Alternative packing option available



Outline (mm)



Typical Frequency Stability Characteristics



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